

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/362,286A  
Source: IFW/6  
Date Processed by STIC: 7/18/05

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IFW16

## RAW SEQUENCE LISTING

DATE: 07/18/2005

PATENT APPLICATION: US/09/362,286A

TIME: 13:40:02

Input Set : A:\61113537.app

Output Set: N:\CRF4\07182005\I362286A.raw

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3 <110> APPLICANT: NADKARNI, ANUPAMA K.
4   TRUEHEART, JOSHUA
6 <120> TITLE OF INVENTION: EXPRESSION OF G PROTEIN-COUPLED RECEPTORS WITH ALTERED
7   LIGAND BINDING AND/OR COUPLING PROPERTIES
9 <130> FILE REFERENCE: 61113 (50370)
11 <140> CURRENT APPLICATION NUMBER: 09/362,286A
12 <141> CURRENT FILING DATE: 1999-07-27
14 <150> PRIOR APPLICATION NUMBER: 60/094,451
15 <151> PRIOR FILING DATE: 1998-07-27
17 <160> NUMBER OF SEQ ID NOS: 48
19 <170> SOFTWARE: PatentIn Ver. 3.3
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 27
23 <212> TYPE: PRT
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
28   receptor sequence motif
30 <400> SEQUENCE: 1
31 Leu Ala Tyr Ser Asn Ser Ser Val Asn Pro Ile Ile Tyr Ala Phe Leu
32   1           5           10           15
34 Ser Glu Asn Phe Arg Lys Arg Tyr Lys Gln Val
35           20           25
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39 <211> LENGTH: 4
40 <212> TYPE: PRT
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
45   amino acid sequence motif
47 <400> SEQUENCE: 2
48 Phe Arg Lys Arg
49   1
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53 <211> LENGTH: 27
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
59   IL-8 receptor motif
61 <400> SEQUENCE: 3
62 Leu Gly Phe Leu His Ser Cys Leu Asn Pro Ile Ile Tyr Ala Phe Ile
63   1           5           10           15

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65 Gly Gln Asn Phe Arg Asn Gly Phe Leu Lys Met
66          20          25
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70 <211> LENGTH: 4
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
76     amino acid sequence motif
78 <400> SEQUENCE: 4
79 Phe Arg Asn Gly
80 1
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 27
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
90     galanin receptor motif
92 <400> SEQUENCE: 5
93 Leu Ala Tyr Ser Asn Ser Ser Val Asn Pro Ile Ile Tyr Ala Phe Leu
94 1          5          10          15
96 Ser Glu Asn Phe Arg Lys Ala Tyr Lys Gln Val
97          20          25
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 10
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
107     amino terminal domain conserved sequence motif
109 <400> SEQUENCE: 6
110 Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly
111 1          5          10
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 8
116 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
121     amino terminal domain conserved sequence motif
123 <400> SEQUENCE: 7
124 Leu Leu Leu Leu Gly Ala Gly Glu
125 1          5
128 <210> SEQ ID NO: 8
129 <211> LENGTH: 9
130 <212> TYPE: PRT
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:

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134 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 135 G1 region conserved sequence motif  
 137 <400> SEQUENCE: 8  
 138 Gly Ser Gly Glu Ser Gly Asp Ser Thr  
 139 1 5  
 142 <210> SEQ ID NO: 9  
 143 <211> LENGTH: 8  
 144 <212> TYPE: PRT  
 145 <213> ORGANISM: Artificial Sequence  
 147 <220> FEATURE:  
 148 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 149 GPA1 amino terminal sequence motif  
 151 <400> SEQUENCE: 9  
 152 Gln Ala Arg Lys Leu Gly Ile Gln  
 153 1 5  
 156 <210> SEQ ID NO: 10  
 157 <211> LENGTH: 5  
 158 <212> TYPE: PRT  
 159 <213> ORGANISM: Artificial Sequence  
 161 <220> FEATURE:  
 162 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 163 G alpha conserved sequence motif  
 165 <400> SEQUENCE: 10  
 166 Asp Val Gly Gly Gln  
 167 1 5  
 170 <210> SEQ ID NO: 11  
 171 <211> LENGTH: 29  
 172 <212> TYPE: DNA  
 173 <213> ORGANISM: Artificial Sequence  
 175 <220> FEATURE:  
 176 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 177 oligonucleotide primer  
 179 <400> SEQUENCE: 11  
 180 ccccatgga agtaaagcga tggaatatg 29  
 182 <210> SEQ ID NO: 12  
 183 <211> LENGTH: 27  
 184 <212> TYPE: DNA  
 185 <213> ORGANISM: Artificial Sequence  
 187 <220> FEATURE:  
 188 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 189 oligonucleotide primer  
 191 <400> SEQUENCE: 12  
 192 ccctctagag atttgaaggc acgttgg 27  
 194 <210> SEQ ID NO: 13  
 195 <211> LENGTH: 13  
 196 <212> TYPE: PRT  
 197 <213> ORGANISM: Artificial Sequence  
 199 <220> FEATURE:  
 200 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

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201      IL-8 fusion junction
203 <400> SEQUENCE: 13
204 Leu Lys Arg Ser Ala Lys Glu Leu Arg Cys Gln Cys Ile
205      1              5              10
208 <210> SEQ ID NO: 14
209 <211> LENGTH: 15
210 <212> TYPE: PRT
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
215      MGSA fusion junction
217 <400> SEQUENCE: 14
218 Leu Lys Arg Ala Ser Val Ala Thr Glu Leu Arg Cys Gln Cys Leu
219      1              5              10              15
222 <210> SEQ ID NO: 15
223 <211> LENGTH: 11
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
229      NAP2 fusion junction
231 <400> SEQUENCE: 15
232 Leu Lys Arg Ala Glu Leu Arg Cys Met Cys Ile
233      1              5              10
236 <210> SEQ ID NO: 16
237 <211> LENGTH: 57
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
243      oligonucleotide
245 <400> SEQUENCE: 16
246 ttaagcgtga ggcagaagct tctgctaagg aattgagatg tcaatgtatt aagactt      57
248 <210> SEQ ID NO: 17
249 <211> LENGTH: 59
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
255      oligonucleotide
257 <400> SEQUENCE: 17
258 actctaagcc attccatcca aagttcatta aggaattgag agttattgaa tctgggtcca      59
260 <210> SEQ ID NO: 18
261 <211> LENGTH: 60
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
267      oligonucleotide

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269 <400> SEQUENCE: 18
270 cattgtgcta acactgaaat tattgttaag ttgtctgatg gtagagaatt gtgtttggat 60
272 <210> SEQ ID NO: 19
273 <211> LENGTH: 63
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
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279     oligonucleotide
281 <400> SEQUENCE: 19
282 ccaaaggaaa actgggttca aagagttggt gaaaagttct tgaagagagc tgaaaactct 60
283 tga
285 <210> SEQ ID NO: 20
286 <211> LENGTH: 59
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
292     oligonucleotide
294 <400> SEQUENCE: 20
295 tagagtaagt cttaatacat tgacatctca attccttagc agaagcttct gcctcacgc 59
297 <210> SEQ ID NO: 21
298 <211> LENGTH: 59
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
304     oligonucleotide
306 <400> SEQUENCE: 21
307 acaatgtgga ccagattcaa taactctcaa ttccttaatg aactttggat ggaatggct 59
309 <210> SEQ ID NO: 22
310 <211> LENGTH: 60
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
316     oligonucleotide
318 <400> SEQUENCE: 22
319 ctttgatcc aaacacaatt ctctaccatc agacaactta acaataattt cagtgttagc 60
321 <210> SEQ ID NO: 23
322 <211> LENGTH: 61
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
328     oligonucleotide
330 <400> SEQUENCE: 23
331 gatctcaaga gttttcagct ctcttcaaga acttttcaac aactctttga acccagtttt 60
332 c

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**VERIFICATION SUMMARY**

DATE: 07/18/2005

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